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| **Programme Title:**  | **Chemistry with a Preliminary Year of Study****F108**This programme runs for only one year. Students who successfully complete the preliminary year transfer onto a BSc or MSci programme.  |

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| **A. Knowledge and Understanding** |
| Knowledge and Understanding of: | **NEW! Taught and assessed through the following mandatory units:** | **Programme learning outcomes mapped by unit** | **Please confirm whether the unit catalogue holds the up-to-date version of this unit (Yes/No)**If no, please make sure you submit the complete, up-to-date unit specification to c.lee@bris.ac.uk  |
| *A1* | Inorganic Chemistry | CHEM10200MATH10007/8PHYS10002PHYS10003 | A1-4A5-6A7A8 | *Y**Y**Y**Y* |
| *A2* | Organic Chemistry |
| *A3* | Physical Chemistry |
| *A4* | Practical Laboratory based skills |
| *A5* | Basic algebra and trigonometry.  |
| *A6* | Vectors and understand the meaning of derivative and integral |
| *A7* | Physics: Mechanics, Waves and Optics |
| *A8* | Electromagnetism, Thermodynamics and Atomic Physics |
| **Learning/teaching methods and strategies:**Acquisition of basic knowledge and understanding is through a combination of seminars, lectures and tutorials (year 1 small group teaching) |
| **Types/methods of assessment:**Testing of the knowledge base is through a combination of unseen written examinations, assessed coursework in the form of supervised laboratory work reports and problems classes |

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| **B. Intellectual Skills /Attributes** |
| Able to: | **NEW! Taught and assessed through the following mandatory units:** | **Programme learning outcomes mapped by unit** | **Please confirm unit catalogue holds up-to-date version of this unit (Yes/No)**  |
| *1* | solve chemical problems | CHEM10200MATH10007/8PHYS10002PHYS10003 | *B1-5**B2-4**B2-5**B2-5* | *Y**Y**Y**Y* |
| *2* | orally present complex issues to others through small group teaching. |
| *3* | develop written and oral communication skills |
| *4* | able to think rationally and creatively |
| *5* | employ and carry out basic practical operations and techniques |
| *6* |  |
| **Learning/teaching methods and strategies:**Intellectual skills are developed through the teaching and learning programme outlined above. Analysis and problem solving skills are further developed through tutorials. Communication skills are developed through writing, oral presentation. Practical skills are developed through supervised laboratory courses.  |
| **Types/methods of assessment:**Analysis and problem solving skills are assessed through unseen written examinations. Communication skills are assessed through laboratory reports and oral presentation of research work. Practical skills are assessed through laboratory reports.  |

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| **C. Other Skills /Attributes (Practical/Professional/Transferable)** |
| Able to: | **NEW! Taught and assessed through the following mandatory units:** | **Programme learning outcomes mapped by unit** | **Please confirm unit catalogue holds up-to-date version of this unit (Yes/No)** If no, please make sure you submit the complete and up-to-date unit specification to c.lee@bris.ac.uk  |
| *1* | develop a desire for lifelong learning | CHEM10200MATH10007/8PHYS10002PHYS10003 | *C1-6**C1-3, 5-6**C1-6**C1-6* | *Y**Y**Y**Y* |
| *2* | able to take decisions in a responsible and professional manner |
| *3* | develop time management and efficiency skills |
| *4* | report writing skills |
| *5* | work effectively in a group |
| *6* | make appropriate use of information and communication technology resources |
| **Learning/teaching methods and strategies:**Transferable skills are developed through the teaching and learning programmes outlined above. Report writing and general communication skills are developed throughout the course of study through feedback on practical write-ups, and oral presentations and discussions in seminars. Skills in the area of information and communication technology are acquired through self-directed study.  |
| **Types/methods of assessment:**Transferable skills are assessed continuously through reports on formal practical work.  |